

Claims:

- 5
1. An article comprising:
a body having an exterior surface with a certain color;
a polymer coating extending over a certain region of the exterior surface, the coating having a color that contrasts with the color of the exterior surface; and
a laser engraved identification mark formed within the coating.
- 10
2. An article according to claim 1 wherein the exterior surface is visible within the identification mark.
- 15
3. An article according to claim 2 wherein the exterior surface visible within the identification mark is devoid of surface irregularities.
- 20
4. An article according to claim 1 wherein the laser engraved identification mark has a color that is different than the color of the polymer coating.
- 25
5. An article according to claim 1 wherein the identification formed within the coating is a species mark, and wherein the article also has a genus identification mark made of the polymer coating that is located in an area spaced from the certain region.
- 30
6. An article according to claim 1 wherein the polymer coating has a color presenting a genus identification mark, and wherein the laser engraved identification mark is a species mark.
7. An article according to claim 6 wherein the article includes a container and a product in the container, and wherein the color of the polymer coating matches the color of the product.
8. An article according to claim 7 wherein the product is a dental sealant or a dental restorative material.

9. An article according to claim 1 wherein the article is a product container having a polymeric body and a chamber within the body.

10. An article according to claim 9 wherein the product container includes a flowable material within the chamber.

11. An article according to claim 10 wherein the material is a dental sealant or a dental restorative material.

12. An article according to claim 11 wherein the color of the polymer coating matches the color of the dental material.

13. An article according to claim 1 wherein the article also includes a laser engraved identification mark that is spaced apart from the region of the exterior surface and is more difficult to see than the laser engraved identification mark formed within the coating.

14. An article according to claim 13 wherein the laser engraved identification mark that is spaced apart from the region of the exterior surface includes information selected from a group consisting of shelf life data, expiration data, date of manufacture, serial number, batch code data and lot code data.

15. An article according to claim 1 wherein the article includes a container and a product in the container.

16. An article according to claim 1 wherein the article is an orthodontic band.

17. A method of marking an article comprising the acts of:
selecting a polymer coating having a color that contrasts with the color of an exterior surface of the article;
applying the coating to a certain region of the exterior surface of the article; and
directing a laser beam toward the coating with sufficient power to cause at least a portion of the coating to undergo a chemical reaction and create an identification mark.

Pub 12

660221 47699760

18. A method of marking an article according to claim 17 wherein the act of directing a laser beam toward the coating causes at least some of the coating to volatilize.
- 5 19. A method of marking an article according to claim 18 wherein the act of directing a laser beam toward the coating does not cause any surface irregularity on the exterior surface of the article.
- 10 20. A method of marking an article according to claim 18 wherein the article comprises a container made of a polymeric material and wherein the act of directing a laser beam toward the coating does not substantially soften the exterior surface of the container.
- 15 21. A method of marking an article according to claim 17 wherein the act of directing a laser beam toward the coating causes at least some of the coating to polymerize.
- 20 22. A method of marking an article according to claim 1 wherein the act of directing a laser beam toward the coating does not cause any substantial amount of surface irregularities on the exterior surface of the article.
- 25 23. A method of marking an article according to claim 17 wherein the act of directing a laser beam toward the coating causes at least some of the coating to change color.
24. A method of marking an article according to claim 23 wherein the act of directing a laser beam toward the coating does not cause any substantial amount of surface irregularities on the exterior surface of the article.
- 30 25. A method of marking an article according to claim 17 wherein the act of directing the laser beam toward the coating creates a species mark, and wherein the act of applying the coating to the exterior surface of the article includes the act of creating a genus mark that is distinct from the species mark.

Sub A3

26. A method of marking an article according to claim 17 wherein the act of directing a laser beam toward the coating creates a species mark, and wherein the color of the polymer coating is representative of a genus mark.

5 27. A method of marking an article according to claim 17 wherein the article comprises a container and a product in the container, and wherein the act of selecting a polymer coating includes the act of selecting a polymer coating that has a color matching the color of the product in the container.

10 28. A method of marking an article according to claim 27 wherein the product is a dental sealant or dental restorative material.

15 29. A method of marking an article according to claim 17 and including the act of directing the laser beam toward the article at a location spaced from the coating in order to create another identification mark.

20 30. A method of marking an article according to claim 29 wherein the act of directing the laser beam toward the article at a location spaced from the coating creates an identification mark that is more difficult to see than the identification mark that is created by the act of directing a laser beam toward the coating.

31. A method of marking an article according to claim 17 wherein the article is an orthodontic band.

Add By